



## SEQUENCE LISTING

<110> Benzer, Seymour  
Min, Kyung-Tai

<120> LIFE EXTENSION OF DROSOPHILA BY A DRUG TREATMENT

<130> 30431.3US01

<140> 09/895141

<141> 2001-06-29

<150> 60/215401

<151> 2000-06-29

<160> 54

<170> PatentIn Ver. 2.1

<210> 1

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Superoxide Dismutase

<400> 1

gctggtacca atttattagc cgcaac

26

<210> 2

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Superoxide Dismutase

<400> 2

tgatctgaag aaggccatcg agtcgc

26

<210> 3

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Cytochrome P450-4d1

<400> 3

cgaaatgtgg ctctactat cgctagt

27

<210> 4  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: 3'RT-PCR  
 Primer Sequence for Cytochrome P450-4d1  
  
 <400> 4  
 acttgcggtcc gttgctcacc agcagt 26  
  
 <210> 5  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: 5'RT-PCR  
 Primer Sequence for Glutathion S-Transferase  
  
 <400> 5  
 cagtgtacat cgcgagtttc acaac 25  
  
 <210> 6  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: 3'RT-PCR  
 Primer Sequence for Glutathion S-Transferase  
  
 <400> 6  
 tccaggaagg tggttcaggaa ctcgaa 26  
  
 <210> 7  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: 5'RT-PCR  
 Primer Sequence for HSC70  
  
 <400> 7  
 ccagtttgat cgaaggtgcg gcaga 25  
  
 <210> 8  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for HSC70

<400> 8

tgtccagacc gtaagcgata gcagcg

26

<210> 9

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for HSP60

<400> 9

aggcaaatat cagtcaacat gatgcgca

28

<210> 10

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for HSP60

<400> 10

ccttgaccgt ctcgatggct agcat

25

<210> 11

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for dnaJ-like2

<400> 11

ggagaggctc tttcctacgg ataatgcc

28

<210> 12

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for dnaJ-like2

<400> 12  
atatcccata ctcgttggtg tagtattgcc 30

<210> 13  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Elongation factor lalpha

<400> 13  
acattgtcgt gatcggacac gtcga 25

<210> 14  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Elongation factor lalpha

<400> 14  
tatggtggct cggaggagtc catcttggt 29

<210> 15  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Inebriated

<400> 15  
cttgaggcac agccaactct ctgatag 27

<210> 16  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Inebriated

<400> 16  
taaccgacgac ttcagctcca tgctga 26

<210> 17

<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Daughterless, specific RNA  
polymerase II transcription factor

<400> 17  
gccagtttga aactcgatcg cagtgc

26

<210> 18  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Daughterless, specific RNA  
polymerase II transcription factor

<400> 18  
cggtatcatg tgatgctggg cactta

26

<210> 19  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Transportin

<400> 19  
aaagcacagc caacacccaa agcagcaaa

29

<210> 20  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Transportin

<400> 20  
ggcactcgtg tttgatatac tccacgatc

29

<210> 21  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Epididymal secretory protein

<400> 21

tagattcgta gcgctgtgaa gaggca

26

<210> 22

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Epididymal secretory protein

<400> 22

aaaatcagga gtgctcagtg cgctctc

27

<210> 23

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Mitochondrial phosphate  
carrier protein

<400> 23

taacgttgct gacgaatacc gaccc

25

<210> 24

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Mitochondrial phosphate  
carrier protein

<400> 24

agatacaagg aggtgcggtg caggta

26

<210> 25

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR

Primer Sequence for Imaginal disc growth factor 1

<400> 25  
tttggccagt gcaaagtcca cggaagt 27

<210> 26  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Imaginal disc growth factor 1

<400> 26  
agctccgatt ttcttccagg acgaac 26

<210> 27  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Glyceraldehyde 3phosphate  
dehydrogenase 1

<400> 27  
gctctgcata tacttgatca ggctgatg 28

<210> 28  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Glyceraldehyde 3phosphate  
dehydrogenase 1

<400> 28  
aatgtctccg ttgtgatct taccg 25

<210> 29  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for NADA:ubiquinone reductase 75kD  
subunit precursor

<400> 29  
tgagaacgag gacgtcaacg aggaatg 27

<210> 30  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for NADA:ubiquinone reductase 75kD  
subunit precursor

<400> 30  
tgcagttcgt tgtgcacata ggccttg 27

<210> 31  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Cytochrome c oxidase

<400> 31  
ggacatcctg gagcattaat tggagatg 28

<210> 32  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Cytochrome c oxidase

<400> 32  
tccagcggat agaggtggat aaacag 26

<210> 33  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Peptidyl  
glycine-alpha-hydroxylating monooxygenase

<400> 33  
gttcgaatac ggtgaaaatg ccacgc 26



<210> 34  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Peptidyl  
glycine-alpha-hydroxylating monooxygenase

<400> 34  
agttcttgcc caccttgaaa ccctact

26

<210> 35  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Fatty acid synthase

<400> 35  
atttgtgaga gcggtagctt ggcggtttc

29

<210> 36  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Fatty acid synthase

<400> 36  
agtctcaacc tggtcctcct tggtaggg

28

<210> 37  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Cytochrome c oxidase subunit  
Vib

<400> 37  
atcgtcagac agcagcaaca tgtccgccta

30

<210> 38  
<211> 27

<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Cytochrome c oxidase subunit  
Vib

<400> 38  
tctgcattca ccgctgggga aagcaca

27

<210> 39  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Hexokinase

<400> 39  
ctcacaaatg ccctacgtat gcacat

26

<210> 40  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Hexokinase

<400> 40  
aagtaggatg gatagggagc tggagct

27

<210> 41  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for DnaJ like 1

<400> 41  
ttctttggat cgtcggatcc gtttgg

26

<210> 42  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for DnaJ like 1

<400> 42  
ctcgtgggttc ggattcacct gtatcct 27

<210> 43  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Osa

<400> 43  
cgatgactca acagtccagt tctttggc 28

<210> 44  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Osa

<400> 44  
ttaggctgta ctgcacttg acccaaa 27

<210> 45  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Calrecticulin

<400> 45  
agttcggaca accatcggag ttggaag 27

<210> 46  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Calrecticulin

<400> 46  
agcagtcgaa cagcttcaca tagccg 26

<210> 47  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Peroxisomal farnesylated  
protein

<400> 47  
aaacgacttg ctggacagtg ctctcca

27

<210> 48  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Peroxisomal farnesylated  
protein

<400> 48  
tggttaggaac atgtttccat caccctc

27

<210> 49  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Cycline-dependent kinase9

<400> 49  
tgtcggcttc tcgcaaaact gtgattgt

28

<210> 50  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Cycline-dependent kinase9

<400> 50  
cttgacgttc atgttggaca gaagacc

27

<210> 51

<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Porin

<400> 51  
atacagcgat ttgggcaaac aggctcg

27

<210> 52  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Porin

<400> 52  
ccatcggtga cagctgtgtg cagaacaa

28

<210> 53  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 5'RT-PCR  
Primer Sequence for Opsin

<400> 53  
cgatactttc ctctgtacat tgcagac

27

<210> 54  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: 3'RT-PCR  
Primer Sequence for Opsin

<400> 54  
tgctaaccag aacatccagt ggatcc

26